

Claims

1. Steam injection module (1) for incorporation into a plant for pasteurizing/sterilizing of liquid to highly viscous, pumpable, continuously transported products and having a product line section (3), wherein the product is led through the production line section (3), and having a steam tube (2) essentially perpendicular penetrating through the product line section (3) and having a steel carrier (5,6), characterized in that the production line section (2) (translator's remark: should be 3) and the steam tube (3) (translator's remark: should be 2) is a non-welded production element, wherein the non-welded production element is surrounded by a carrier (5,6) subdivided into at least two parts (5,6).
2. Steam injection module according to claim 1, wherein the single part production element is made out of plastic.
3. Steam injection module according to claim 2, wherein the plastic is a poly tetra fluoro-ethylene (PTFE) or a ceramic.
4. Steam injection module according to claim 1, wherein the steam tube (2) exhibits steam exit bore holes (7) within the product line section (3).

5. Steam injection module according to claim 4, wherein the steam exit bore holes (7) are disposed oppositely to each other.

6. Steam injection module according to one of the preceding claims, wherein the steam tube line (2) exhibits in each case a flange (8,8') at its two ends.

7. Steam injection module according to one of the preceding claims, wherein the product line section (3) exhibits in each case a flange (9,9') at its two ends.

8. Steam injection module according to one of the preceding claims, therein the diameter of the product line section (3) is larger than the diameter of the steam tube line (2).

9. Steam injection module according to claim 1, wherein the steel carrier comprises two parts (5,6), wherein the inner recesses (10, 11) of the two parts (5,6) correspond to the outer geometric dimensions of the single part production element.

10. Steam injection module according to one of the preceding claims, wherein the two steel carrier parts (5,6) are held together by at least two attachment elements (12, 12').

11. Steam injection module according to claim 10 wherein the attachment elements are screw connections.

12. Steam injection module according to one of the preceding claims, wherein the steel carrier parts (5,6) are formed half shell shaped and exhibits bore holes (14,14') at their front faces (13,13'), wherein at least one bore hole of the bore holes (14,14') is a threaded bore hole.

13. Steam injection module according to one of the preceding claims, wherein the single part production element is produced by metal cutting and machining away and wherein the single part production element does not exhibit any corners and edges in the interior.

14. Steam injection module according to one of the preceding claims, wherein the connection positions (15) between the product line section (3) and the steam tube are (2) are formed rounded.